https://angular.dev/guide/forms/reactive-forms

Reactive Forms!

```
@Component({
    selector: 'app-contact',
    imports: [ReactiveFormsModule],
    templateUrl: './contact.component.html',
    styleUrl: './contact.component.css',
})
export class ContactComponent {
```

```
<form [formGroup]="messageForm"</pre>
  (submit)="sendMessage()">
  <fieldset>
    <legend>Contact</legend>
   ul>
      <
        <label for="name">Name</label>
        <input
          name="name"
          type="text"
          id="name"
          placeholder="Your name"
          formControlName="name"
```

Reactive Forms

- Observables naudojami stebėti reikšmių pokyčius ir atnaujinimus.
- Immutable kiekvieno pokyčio metu grąžinama nauja formos būsena.
- Leidžia atlikti validaciją kode lengviau pritaikyti individualius sprendimus.

Reactive Forms

• Sudaryta iš *FormControl* (vienas form control), *FormGroup* (formos valdiklių

map) ir FormArray (FormGroup masyvai).

- Apibrėžiama kode tik atvaizduojama šablone.
- [formGroup] priskiriamas form elementui:

```
<form [formGroup]="messageForm" (submit)="sendMessage()">
```

- formControlName atributas susieja HTML formos valdiklį su kodu:
- FormBuilder gali būti inject'inamas, kad būtų paprasčiau kurti formas:

```
messageForm =
this.#fb.group({
   name: '',
   email: '',
   text: '',
});
```

```
<input
    name="name" type="text"
    id="name"
    placeholder="Your name"
    formControlName="name"
/>
```

messageForm = new FormGroup({

name: new FormControl(''),

text: new FormControl(''),

});

email: new FormControl(''),

Reactive Form Validacija

```
name: ['', [Validators.required, Validators.pattern('Jurgis')]],
```

```
get messageName() {
  return this messageForm get('name');
}
```

```
<
 <label for="name">Name</label>
 <input
   name="name"
   type="text"
   id="name"
   placeholder="Your name"
   formControlName="name"
 />
<div
  [hidden]="messageName?.valid | |
messageForm.controls['name'].pristine"
 @if (messageName?.errors?.['required']) {
 <span>Expense name is required
   @else if (messageForm.controls['name'].errors?.['pattern']) {
 <span>Tik Jurgis
</div>
```

Template driven to Reactive

```
<
  <label for="name">Name</label>
  <input
   name="name"
   type="text"
   id="name"
    [(ngModel)]="model.name"
    required
   placeholder="Your name"
   #messageName="ngModel"
    pattern="Jurgis"
<div [hidden]="messageName.valid | messageName.pristine">
 @if(messageName.errors?.['required']) {
  <span>Message name is required</span>
  } @else if (messageName.errors?.['pattern']) {
  <span>Tik Jurgis
</div>
```

Template driven to Reactive

```
<
 <label for="name">Name</label>
 <input
   name="name"
   type="text"
   id="name"
   placeholder="Your name"
    formControlName="name"
<div
  [hidden]="messageName?.valid || messageForm.controls['name'].pristine"
 @if (messageName?.errors?.['required']) {
  <span>Expense name is required
 } @else if (messageForm.controls['name'].errors?.['pattern']) {
  <span>Tik Jurgis</span>
</div>
```

Task #2 - Reactive Forms intro

- Konvertuokite TasksComponent template-driven formą į reactive.
- Template validatoriai >> reactive validatoriai.